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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,763	07/22/2003	F. Coyne Prenger	S-100,646	7843
75	12/06/2005		EXAMINER	
Bruce H. Cottrell			BARRY, CHESTER T	
Los Alamos National Laboratory LC/IP, MS A187			ART UNIT	PAPER NUMBER
Los Alamos, NM 87545			1724	
			DATE MAILED: 12/06/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/625,763	PRENGER ET AL.	
Office Action Summary	Examiner	Art Unit	
	Chester T. Barry	1724	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statuf Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI .136(a). In no event, however, may a d will apply and will expire SIX (6) MOI te, cause the application to become A	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 11 (<u>October 2005</u> .		
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.		
3) Since this application is in condition for allows	•	• •	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.E). 11, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 31-36 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 31-36 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examin 10)☒ The drawing(s) filed on 22 July 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the E	accepted or b) \square objected or by objected or by objected or abeyangtion is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in A ority documents have beer au (PCT Rule 17.2(a)).	application No received in this National Stage	
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

Applicants' election without traverse is noted.

Claims 31 – 35 are rejected under 35 USC Sec. 103(a) as obvious over Lidzey. USP 5441648 to Lidzey describes a mixing chamber A, a ball matrix within a magnetic separator, and an outlet F. The ref. describes placing magnetite and water to be decontaminated in the feed tank A, but does not appear to describe two inlet conduits for adding contaminated water and magnetite into the feed tank. It would have been obvious to have provided the stirred feed tank with conduit for separately adding contaminated water and magnetite to the feed tank A in order to facilitate continuous processing of the water. The patent describes adding water at E and draining water out at D. It would have been obvious to have provided the water to E via a conduit to facilitate continuous operation of the matrix backwashing process.

Per claim 36, the ref. describes the ball matrix chamber as on having a cross sectional area of about (13×4) cm², or about 52 cm² (at col 2 line 65). At the water flow rates described in the ref., i.e., 4, 2, and 1 L/min (see col/line 4/37), the superficial water velocity through the magnetic separator is inherently described as about 1.3, 0.6, and 0.3 cm/sec.

Patents cited of interest: 5855790, 5538701, 4781298, and 4701261.

571-272-1152